

The Bournemouth and Poole Atari User Group's Newsletter

50p

November 1987

Issue 1



Reviews :

Planetarium

Midnight Magic, Stargate, Solaria
Start - The ST Quarterly
Four Great Games Volume II
Henry's House
Graeme Ranger

Programs :

STBUF - A printer utility for the ST & 8-bit owners.

L: Device Handler - A program from Page Six published

-Contributors-

Chris Ross

Stephanie Wilkins

Thomas Hobler

Julian

Graphic Co-ordinator

WCS & 8-bit Reviews

-How to CONTACT us-

Letters and articles should be sent to:

8:16, c/o 242 Western Road, Dulwich, South, London.

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This issue of 8:16 was produced on an Apple Macintosh Plus using MacDraw, MacPaint, MacWrite and PageMaster. Output was produced via 'Terry' the laserprinter. All images were produced using the Amstrad CPC 664 programmed with an Amstrad BASIC, and using the L: Device Handler.

It is hoped that future issues will be produced using the Amstrad ST using Calligrapher (when the memory for the software becomes available).

The Amstrad CPC and Amstrad ST User Groups (8:16) is a section of the Association of Amstrad User Groups (AAUG).

The opinions expressed within 8:16 are those of the authors and not necessarily held by the AAUG.

The AAUG is a non profit making organisation and does not receive money from this section.

-Start Here-

Welcome to the first issue of 8:16, the Southwark and Dulwich Amstrad User Group Newsletter. This is a new publication dedicated to supporting all Amstrad computer systems. We are aiming mainly to support the 8-bit and ST range of machines, but will also be looking at the VGS and PC when necessary. Within each issue we cover all the aspects of computing. This issue has reviews on three WCS games, PageMaster, a revamped program just re-released by Amstrad for the ST and an START the ST Quarterly and disk from ANTIC Publishing. Also included are two programs. The first is a scroll to an 8-bit program originally published in Page 6, the second for 8-bit and ST versions which turns the 8-bit into a graphics buffer for the ST. Finally there is a roundup of the software released over the past few months.

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-Editorial-

The success and survival of any publication, especially user group newsletters, depends upon many factors. The most critical factor being the quality and style of the articles enclosed, combined with their interest and usefulness. On top of this is the requirement for something unique and different, something this publication does or can give to make it stand out from the others and therefore worth purchasing.

I hope this, the first issue of 8:16 meets these requirements, without losing the balance required when covering several different computer systems. No matter how well the contents appear to be balanced to the people who produce the publication, it is the readers who have the final say. If the contents are good, it will sell. So please read on and let us know what you like and what you dislike, so that we can improve in future issues.

See you in issue 2.

Notice Board

Atari Workstation

During the JESI show recently held in Berlin, Atari showed approximately 10 different houses the present plans. Detailed within these plans is the CR00 transputer workstation, currently planned by Transputer under construction. This is to be used initially for development work which requires the highest CPU's. Four houses for both projects have not yet been announced. Atari workstation will use the CR00 at 10MHz, have 4 Mbytes of real memory and 2 Mbytes of video memory with their colour vector graphics. As with all Atari ventures the expected price of the workstation will come in comparison to similar.

Drop my ST!

In the August 1987 issue of Byte, within their Best of the Year section is a message from London Owner of the Atari Corporation in response to a problem. The problem was a fault with a 1000XL and 3000XL system, which always indicates zero bytes contained in save files. London states that the problem is most usually related to a damaged or misaligned glue chip, and he first suggests to pick up your ST and drop it about three inches to the table. More warning in his statement that this is a destructive technique so far. Farnell manufacturing plant - Miss London's second suggestion is much safer; that being get your dealer to replace the chips for you. The solution is by far the safest.

ATARIS IN GERMANY

Do you want to own an 800XL or 1000ST?

Yes, then you'll have to import one from Germany (or import if you prefer). Because both these machines are available there. The 1000ST everyone knows about, while an advert for the 800XL recently appeared on the back page of Happy Computer Atari Special. It looks just like the 1000XL, but is presented without the extra 64K bank of memory. If anyone connects or has used one we shall be pleased to hear from you.

New ST OS

The last version of the ST17PM have a new version of the operating system. Within its package is a new file called "Unipatch", which reads:

This Amstrad ST Computer is fitted with the Amstrad Operating System ROM Version 1.22. The authorised version of the operating system and hardware introduced to facilitate compatibility to future products such as the Amstrad ST4000.

Please ensure that you purchase software compatible with this operating system version. Your Amstrad may be incompatible with the few titles that are incompatible with this version. The authors of incompatible software products have been informed and will be releasing compatible versions.

Kirk Campbell of the Computer Shop (Plymouth) has tested his 80 ST series and found 21 which will not work. He has also been unable to obtain a list of the incompatibilities. Some of the sites that failed are 10 Colors, Tai Pei, The Boxcar, London Board, Indiana Jones & The Temple Of Doom, Based Painter and all the Oregon games, including Archipelago and Exodus. The percentage of sites that failed is a lot higher than that indicated by the news.

The reason described is that, according to Kirk, Amstrad has written working code with Atari, allowing the software houses to blame. The story goes like this. When the memory map of the ST is 128K of RAM reserved for house use. The software houses were told not to use it, in order to squeeze more out of the machine they did. The new operating system now uses this memory. Hey presto, a clash in requirements and the system crashes.

Atari User Christmas Show

This years Atari User Christmas Show organiser has decided to concentrate his show again using halls at the Champs Elysees of the Novotel in Hammerton Rd, London. The dates for the show are Friday November the 25th to Sunday November the 27th. Entry price goes to the public from £10.00 and £15.00 Friday and Saturday and from £10.00 £15.00 on Sunday.

There should be plenty of interest for all Atari users and we will print a report in issue 2 of B:16.

I must agree with Len O'Hanlon of Page 8 that a new show or one of the current shows should be held in the north. I know this may make it unlikely for us in the south to attend but it will be better for those users who live in North England and Scotland who currently have to travel down to London.

- Planetarium -

(Atari - XL/ST/Gb)

At, a program for people who own a telescope. But no, this program is for those people who don't own one. Because with planetarium you can see the sky like you never could with your eyes only. Planetarium will show you the regular cyclic positions of the major objects within our Solar System and has a database of 1200 stars, all 81 constellations and more than 100 deep-sky objects.

The program is supplied on disk which has to be loaded with BASIC. This one contains the program while side two the observational data. I suggest writing the package in your memory card and it runs - and with a manual, 120 pages in length. You have to read it first, because it gives you all the details you need to know about life, the universe and everything. It's just like the handbook guide to the galaxy, but this time for real.

Okay, let's go, I switch on the drive, put in the disk and turn on my very nice pc computer. It starts with menu, first choice accepts information for the date to load and it tell you they're working. The drive is spinning round and round like its the last thing u need. But finally, there it is, the main title picture. Two sheets of the screen contain the sky picture and the one, a lot of numbers and letters. The program always starts in the year 1985, so you have to change the year, month, day, time and location every time the program is run. To do this you use the DIRECT key to toggle through a menu. This menu gives you the ability to: select different locations on earth, to change the time and date, to display the sky as seen from earth or display the sky as an astronomical star map.

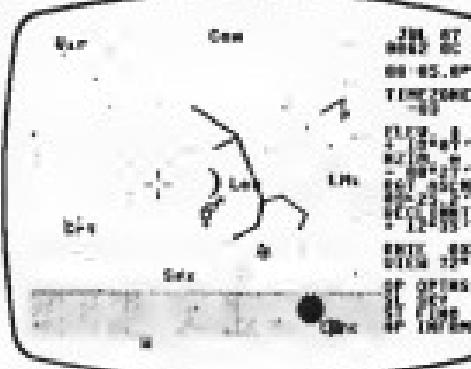
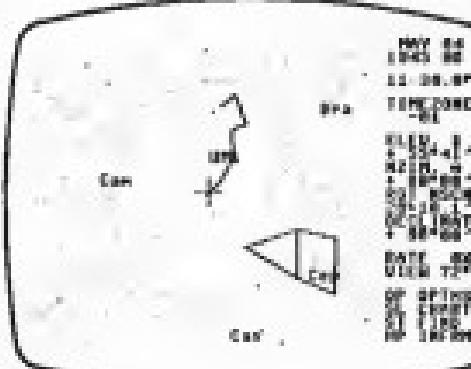
With the date set (the program allows you to go back and forward in time about 10,000 years), select the sky mode and have it, the sky image. This can now match the world down every time you scroll by pressing PAGE key (program goes to pro-

grams such as names, what is and how far away it is. You, the good old HELP key comes in useful after all. When you press START you can search for the moon, sun, planets, Halley

(if he is around) and comets like comet Hale-Bopp, like Asteroids and the Water Monitor. The EXPLORE key lets you change the settings like location, name, name, symbols, track and sound (gives you a little spaceship and the space station would sound instead of a cursor). You can also select deep sky which lets you go even further and study the universe. As well as using the function keys you can also use the letters A, B, C, D, E and F for north, south, west and east, as well as <SHIFT>F and <CTRL>F for providing the maps to either Atari XMASM21 or EPSON FX-80 printers.

The very good manual provides you with a guided tour through the program and the universe. One enabling you learn about both in an interesting way. There are numerous covering past, present and future astronomical events, the history of astronomy, an overview of celestial and terrestrial navigation, space exploration and a table of cities and planets giving their longitude and longitude coordinates. They also list the "most rare and navigational stars" telling you where to find them and the constellations in the English and Latin names. When you get hooked - and you will, they simple demand further reading.

This program is a must for anyone who is interested in the galaxy and stars if you don't know too much about space (like me) you soon get hooked and want to see and know more about it. Are the stars right for romance night? Get the program and find out, while me, I'm just having the solar system hooked.



VCS Reviews

-Midnight Magic-

(Atari - £12.99)

Midnight Magic is a normal pinball machine game. The colours and sound are very good for a VCS version and the gameplay is, well, lots have one more go, until a point you can get hooked on after a while.

There is really not much to say about a pinball game, except that this is the old David's *Midnight Magic* game from Broderbund released in 1982 for the Apple II/America, converted to the VCS.

The strategy was shoot for the targets with the arrow, to light the lamps, to get the bonuses and score points. When you hit all five targets the bonus multiplier increases and you can go for the top multiplier which is unattainable. The best time I played the game I hit 120000 points.

Overall it is an easy game for people like me to play and is different. You can relax and have fun (even on the side if you are of age). Soo, this is one for me.

Thomas Holzer.

-Solaris-

(Atari - £12.99)

VCS games are back and they're better than ever. The game, Solaris, is a laser shoot 'em up with a bit of Star Raiders, Moon Patrol and Xevious.

The Zylons are back, as easy as the menu, so hop into your spacecraft, set the engine and go. Oh, and remember - if anything flies this way, blast it.

I like this game, as fast, noisy and colourful. The plot is to find the last planet Solaris and hyperspace from quadrant to quadrant to fight those evil Zylons. On your journey don't forget to pick up the created gifts on the many planets. Destroyer remnants from blown up planets. Warp to a different planet to reflect and repair damage. Fly your capsule and shoot these Destroyers, pick up the key and if you make it through the ion door you can blast another Zylon planet.

You start with three fighters and can earn an extra 6 plus others (you have to fly past 100 stars) the game ends when you find Solaris or you run out of fighters.

Overall this is a good game for the VCS machine — more please.

Thomas Holzer.

-Stargate-

(Atari - £12.99)

First of all, Stargate is a deflector shot, there are humansoids, smart bombs and lasers. You also get to meet these and rewards again.

Secondly, you need two players to play the game. One for maneuvering your ship, the other to defend the smart bombs, mines and hyperspacers.

Review the story by the way the game suddenly three years old and has just been re-released by Atari. The aliens are attacking your planet and kidnapping your fellow countrymen and it is up to you to pilot your ship across the landscape, destroying the invaders and saving as many humans as possible.

The graphics are very good and colourful and the sound is synthesizer. Quite soon it is off you to the battle around your station, which can show you where the humans are in danger. Considering that you are fighting your enemies, yourself (defenders), "targets" for intermediate compensation more than ever. This is the analytical difference between you and defender.

If you are in trouble you can use mines to make yourself invincible for short, few seconds, or move direction, hyperspace and you can space warp and finally some enemies location on the landscape, be it free or full of invaders.

There are some differences aliens that attack you and of course, the humans that you try to rescue are non-rescueable. You can hear them scream as they are being attacked by lasers.

For everyone is a By on the sky, save the humans and tell the alien-type game, that will not go missing in any VCS collection, try it.

Thomas Holzer.

Do you own a VCS machine?

Want to see your name in lights?

Then send a review of your favourite cartridge to:

6:16
c/o 248 Wimborne Road,
Oakdale, Poole, Dorset.

Figure 3. Descriptive statistics (Estimated R-squared).

-START The ST Quarterly-

At the recent PCW show I purchased three copies of START The ST Quarterly, the dedicated ST magazine and disk produced by Aegis Publishing, at these different prices of £6.95, £9.95 and £12.95. What do I recommend price being £12.95, is this magazine really worth it? I hope discussions of what I found in the Fall 1987 issue convinces you that it is.

Print the Magazine

START is of the high standard expected from Aegis Publishing, and covered aspects of ST computing. There are no listings, so you have to print them yourself if you want to store them in your own library. This also means that the articles take on a research-like print format without there being any code with thoughts, which is a pity as that's by far the best way of learning.

Along with the articles required to run the programs on the disk there are also articles that do not require any programs (just like my other magazines). Within this issue there are reviews of Plus Seven Publisher, VIP Professional, three hard disks - the Amiga Systems HD24, the Supersite and the Amiga HD204, and four MIDI patch expanders - CZ Patch, CZ Androm, Perfect Patch and ZX Heaven. There is also an article detailing the results of a silent tournament between Chameleon 2000, Page Chem and Tachman. The final ratings for these programs being 1794, 2199 and 1783. Also included is a light-hearted article entitled 'How not to run a computer store'.

The magazine is roughly split 60/40 in favour of the articles. As well as the articles being very interesting the adverts give great insights into the products that will be soon available here in the UK and that should not be ignored because of their American only place.

.... how the disk

Finally it's time that you decide the price up front before it's the economy of disk that determines whether you buy the next issue or not. Before you can use the programs you need to convert them as they are stored on the disk in the Archimed (uncompressed) format. This will take about one erasing and 2 or 3 blank formatted single sided disks. If you have a 1.4MB disk use it, as this will save a lot of time. Each arch file on the disk contains several different files, these including the executable code, data files, instructions and sometimes the source listing.

Are the programs varieties of good quality? The simple answer is that it is, but I will expand on this. The programs within the Fall 1987 issue include graphic utilities, a word processor, a calculate/binary converter, a game and some benchmark routines.

My favourite program is Paint Pro, a 'programmatic pixel processor' which enables you to manipulate M64/Schneiders or Giga compatible pictures. You can modify the RGB components of the picture palette and work on the picture using different graphic modes (eg. 1 colour 16 shades, 2 colours 8 shades etc). Among the special effects available are 'chromatic', which regenerates the colour palette every 3rd or 5th frame. You can also rotate images and smooth outlines. In my opinion this

program is worth the £12.95 on its own. The only thing missing though is the source listing which is only available in CompuServe.

My second favourite program is STWriter version 1.73. This is an exact copy of Atmosphere available on the V20 range of Amiga and if like me you've upgraded to an ST and are already using the original STWriter may well be a welcome addition to your ST library. All the commands are identical, with the addition of one very useful feature, a routine enabling you to port Atmosphere files into STWriter via the C64 interface (if you have one) and small emotion codes. Included with the program is a program which will count the words within your document, a full blown manual which you need to print, a quick reference guide and printer configuration files. Once again this program could also be worth the whole cost of the magazine.

Other programs available on this disk are Grapher and EDGraph, two programs that allow you to plot those mathematical functions you learned at school, either step or three dimensioned style. The source program for these programs is written in Personal Pascal and are available on the disk. The sample game on the disk is called Shadyland, and is an exact copy of Breakout (Illustration on the disk magazine START, Volume 2 Number 3 is based). Breakout is written in C64 Basic with the source code available on the disk. The final 'utility' program is a disk accessory called the START Calculator. Oh no, not another calculator? I know you ask. Well yes, but this one is quite different, as it's an exact copy of Texas Instruments TI-30 programmable scientific.

The final two files on the disk are the benchmarks used in evaluating Mark Williams C Compiler and Kozai's C-M64X interpreter.

.... and finally the conclusion.

Overall the magazine is well balanced and provides enough information to supplement the disk. All the articles are very informative, interesting and easy to read.

Overall all the usable programs are very good, with Paint Pro and STWriter standing out. The other two included START that I have (Winter 86 and Summer 87) are also of the same high standard and are all worth the £12.95 price tag, though if you wait until the next computer show you may get some discounts cheaper. I have a sample card of listing magazine issue 1 I like that, I subscribe and my subscription for START is currently ongoing to my address. The magazine is a must for anyone interested in ST computing.

Colin Hart

**BPAUG meetings are held on the
1st Friday of every month at
Kinson Community Centre,
Penhams, Milliams Lane, Kinson,
Starting at 7.30pm.**

Software Roundup

-ST-

Grenville Graphics have released an arcade game called *3D Color* priced at £19.95. **US Gold** have released the concluding chapter of the double-playing tape *Phantom*, with *Phantom 3D* now available for £19.95. A bit pricey in my opinion. If you're into fast-wit strategy games, **FBS** have finally released *Assault By House* at £19.95. **Infant Computer Systems** are currently allowing possible purchases of *TAYMIL* for the Amstrad CPC464. So, if you are interested in a traditional data base and want to 'try before you buy', you'll want to talk to them on 01-551 2128. **MicroAPL** have just cut the price of *APL* to £19.95 by staggering £10 to £9.95. **Digital Instruments** have recently announced three products. These being *Monte Carlo and Noise* also for the CPC464 and *Spectrum Analyser* for £29.95. I think the titles indicate quite adequately their function. I would also be quite interested in seeing *Spectrum Analyser*. **Software 4** have now available along with new packaging *Spectrum Executive* have now released a colour version of *Assault* from said supplier. **Microprose** have a host of games due for release at the near future. These including *F-15 Strike Eagle*, *Project Starship Fighter*, *Avalanche Ranger and Dogs*. *Laser-3* have just released *Greens Ranger* and with exclusive photo album *The Time and Magic Trilogy* which includes the adventures *Carls of Time*, *Red Mesa* and *Prins of May*. Talking about adventures, **Sierra On-Line** have just released *King Of Araby* via annual adventure on 3 discs for £49.95. **US Gold** are also just about to release *Judgement At Zion* and *The Temple of Doom*. **Sub Hatch Simulation**, **Granite ST Software** say, *Charlie Chaplin* and *Bat Man*. There, that should keep you busy. The appealing board game *Trivial Pursuit* is now available from **Diamond Limited**. Also available from the same software house is *Not A Penny More, Not A Penny Less*, the computer game based upon dollars selling more by Jeffery Archer. **Sierra** are also releasing a copy of *Star Wars*, the arcade game. **Big Eyes** have released the ST budget model with *Whizzing : One World* for £9.95. The game is available on the 3-discs for £12.95. Don't think these prices will ever occur with ST software. **Computer Concepts Limited** have released *Cycling* again at £29.95. This is the program I used to use when producing leisure issues of £1.16. **Wandsworth Corporation** have just released *Wandsworth* at £19.95, where **Microline** will be showing their desktop publishing package called *Easy Page* at the Amstrad User Conference Show. All these titles are due for release during October or November. **Technotronics** have just released a platform and hidden game called *Double Ghost*. In this version you play the ghost and blow a bubble around. **World** Advert for *Star Trek* at £15.95 have appeared in the computer press with the words 'now available'. Maybe this time is true. I hope so, as this is one game I'm going to buy. **Mavensoft** are still here, they've had full programming software due for release, all written by different software houses. These include *Universal Military Simulator* by *Paraparaedic Development*, *Carrier Command* by *Frontline Software* and *Assault* by *Magnate Software*. **Elderton** positioned *Quantum Protection* on the PCW. The pricing package allows staggering 40% off releases on the system at once.

-8 Bit-

On the 8-bit market, **Video machine simulation** called *Dizzy Discs* has been refined on the budget label **Playware**. At £1.99 you really can't go wrong. **Microdrive** are also busy as usual, with *IBIS*, *Da Case* and *Microdrive Max* all among Amstrad users software choices. **Microdrive's** name, Strategic, I haven't seen any of these yet. Talking about Amstrad users there have you noticed the massive increase in budget sales available? Others being only 4 titles above £1.99 in the top 20 and the increase in different software houses supplying Amstrad software. Companies currently representing the chart are *Frontline* (with 3 titles), *Microdrive* (with 5 titles), *Sierra* (with 2 titles), *Amsoft*, *US Gold*, *Microprose*, *First Star*, *Frontier* (with 3 titles), *Sierra*, *Playware* and *Commodore*. Well done to all of you. **Strategic Information Systems** also have *Amstrad Home Model*, have *Winter Olympics '88* due for release when the real thing happens and an arcade game called *Miss Fury* due for release. These are both £9.95 on disk, with *Miss Fury* also available on cassette for £7.95. A review of these *Poison Dagger Games Volume II* can be found in this issue of E:16. **Big Eyes** have just released *Mounting : One World* for £19.95 on cassette only.

-VCS-

Atari have just re-released just about all of their VCS game cartridges. These include *Super Breakout*, *Castlevania*, *Montezuma*, *Temple*, *Microline*, *Space Invaders*, *Robotron*, *Conquest*, *Robotron II* and *It's My Egg Catch* all at £29.95. At £29.95 you can now buy the old classics such as *Breakout*, *Jumpin' Jack*, *Kangaroo*, *Big Bag*, *Galaxy*, *Miss Fury*, *Robotron*, *Space Invaders*, *Crash* etc. *Midipac* and *Hi-Fix* have all of these games you know and loved those many years ago. For £12.99 you can buy *Junior Pac-Man*, *Defend* and *Alien Attack*. *Magic*. You can find reviews of the last two in this issue of E:16.

Software houses, please let us know about your future releases so we can include details in this software roundup. Thanks.

-PC-

No PC news this issue. Does anyone know of the Amstrad PC with networking PC software, or not Amstrad and will run machine dependent PC software?

- STBUFF -

(A port expander for the ST)

After five years of using an Atari 800 and two years of owning an Atari 1040XL, I've succumbed to the temptation and bought an Atari 3000TPM (at \$299 I just couldn't resist). So now we are my new machine in a constructive manner, but what? Without a compatible printer, debugging my programs is going to be a pain. I can't afford another 2000 and I'm not going to sell my other two machines so I bought used them. What a mistake, I have a printer for these, an Ascom 1000 parallel printer, so there but unprinted for the job. Maybe I could use that, but how? Well this article describes how I did it.

When telling the ST to produce a listing the output is processed to the parallel port. This port is a standard centronics port, supporting only the STROBE and BUSY lines (along with the required 8 data lines). When the ST wants to send information to the printer it first checks that the BUSY line indicates the printer is high. It will poll this line for about 40 seconds before deciding that there is no printer connected. When the BUSY has been detected as high the ST sets up the data lines and toggles the STROBE line low. This initiates the data into the printer input buffer. At this stage the printer may pull the BUSY line low in order to give itself enough time to print a character before the next arrives. This sequence of events will continue until either the file has been printed or a return has occurred.

In order to be able to economy 1000\$ I had to consider the behaviour of a printer using my 8-bit Atari and convert ST character codes into 8-bit character codes. To do this I needed a cable to connect the two machines together and some software within the ST to tell the cable required nine inputs and one output, these requirements being easily met by the two available joystick ports. Figure 1 shows the cable required. I built the cable using two lengths of 1m cable, about 6mm² cross-section, with two female 8-way D-connectors and a male 25-way Draype. In order to get the lengths required between the two computers I bought two joystick extension leads, though you could build the cable the required length if you want. None of the components required are difficult to obtain, both Trimpex and Maplin stocking almost everything you will need. The joystick extension lead you will have to obtain from Trimpex.

The joystick direction lines all go to the peripheral interface adapter (PIA), which on power-on is configured in open mode. These pins can be changed by a program using memory of input and output. For my application four 8-bit needed to be output lines (DATA 0-3), while the ST's output line (BUSY) is the PIA is mapped into addresses \$D100 - \$D10F (\$4000 - \$4021). Only the first 4 locations are actually required, as they are repeated through the rest of the page. The last two locations are called PORTA and PACNTL. On the XL/XE range the second port is used to control the memory mapping, while on the 48/900 the second port looks after the 3rd and 4th joystick ports.

To program the joystick port you first have to tell the PIA you are going to make control changes by setting bit 3 of PACNTL to zero. You then write to the port (PORTA) with each bit representing a direction, 1 is for input. That is set bit 7 as an output, leaving bits 0 and 1 as inputs you have to write 10000000 (80). You then tell the PIA to go back to normal mode by

resetting bit 3 of PACNTL thus enabling you to read and write to the port normally.

The two Joystick triggers are mapped into memory addresses \$D010 (3234) and \$D011 (3235) respectively. These memory locations are called TRIG0 and TRIG1 and can only be used as inputs. I've used TRIG0 as the STROBE input and TRIG1 as the last data line input (DATA 7).

The software used is based on Listings 1 to 5. These programs do not provide a full blown printer buffer facility. In order for the code within your printer you will probably have to write your own 'initialise' routine or modify the one given. This routine can either operate as a stand alone program or within the main routine. Examples of both are provided, the stand alone routine being the buffered 1020 while the initial routine is the unbuffered version (see lines 340 to 359 of Listing 1). If you are unable to programme your own routine there is a selection option that will transfer the printed file to the ST's disk. You can then use a wordprocessor to edit any changes required. Remember, if you decide to include your routine within the main program a buffered version will be limited in its buffer area unless you use a RAMdisk or disk drive as temporary storage. The graphics dump routine, options 2 and 4 within the main program, will be provided in a later issue of ST 14.

Listing 2 produces the object file D-STBUF.OBJ which is located in the disk source. The source listing for this is on page 14. If you are modifying the source you will have to change line 1350 to '\$=8000', as this was changed in order to produce the listing using the Lz device handler. They both occupy the same memory. This routine call counts the character number in X if an conversion occurred. If conversion has occurred return a value greater than 255.

If you require any routines, or make improvements to these, let us know and we may print them in future issues. Improvements due already include pipeline include re-writing the routines in assembly.

Cable Plan

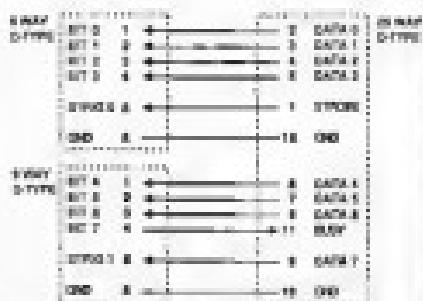


Figure 1 STBUF Cable.

10 PCT Decrease STEAM,DRY file.
20 PCT.
30 DRY-40,000. D-STEAM,DRY
40 100P-40
50 TUR C-1 TO 100000000 D-FAT 40,000
60
70 CLOTH 40
80 FAB
90 DRY 700,100,00,00,00,100,100,100,0,
100
100 DRY 10,700,10,100,00,100,100,100,100,
100,100
100 DRY 0,100,00,100,00,000,000,000,000,
000,000
100 DRY 0,100,100,00,000,000,000,000,000,
000,000
100 DRY 100,100,000,000,000,000,000,000,000,
000,000

Lesson 2: Setting up your own Data API

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100 SET BUFFER1$,$10 Version 1.0
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-Gnome Ranger-

Level 9 - BT - \$14.95

Gnome Ranger is the latest adventure from the Austin family collective called Level 9. The adventure is supplied in a case very similar to a double cassette box. Within the packaging is the disk and a diary written by Ingred (bottom) our heroine.

The disk is dual formatted, that is, it will operate with both single and double sided drives. When used with a double sided drive additional pictures are available. Owners of 3.5" with only single sided drives can purchase a picture disk containing the additional pictures for \$3. See the BACK ME file included on the disk for details. You can also obtain one or three choices checked by sending the cover and a self addressed envelope.

The diary details the days from Ingred leaving the Institute of Gnome Economics to the day her father gives her a sword as a reward for all she has done for them. The first thing you will notice about the diary is the gnomes at the start. The week starts on Sunday and then continues through Monday, Tuesday, Wednesday, Thursday, and Friday to Sunday. Realizing the diary you soon realize why her family are so eager to get rid of her!

This adventure has all the latest adventuring features including multi-player puzzles, characters with their own lives and high-level commands. These commands include means to follow other characters and move to other locations quickly. The two ways of moving quickly are run to location and go to location. The first takes you straight to the planned location, while the second describes the route taken. To use these commands you first need to work out the location gnames. Try guessing possible location gnames using the 'go' command, you'll soon find several locations you may have missed. An excellent feature to go to a location you can also go to analyse. Great if you've dropped something and forgotten where. Once again you can find objects by guessing object gnames. The fact that you can go straight to locations you haven't visited yet go to places you haven't been seems a bit silly. But as the adventure depends upon getting other characters to do things for you, the time saved from wandering around looking for that bridge is a godsend. These commands also reduce the amount of mapping required, which is another major advantage.

The adventure starts with Ingred walking home after being teleported into the wilderness, far from home, by a faulty scroll. Remember though from her father 'Your job is to make sure Ingred gets home while saving out one evil wabbit'. This is accomplished via three mini-adventures, each having to be

solved before you can move on to the next.

The screen is split 50/50 between the picture and text, though you can move the picture up and down using the mouse, thus allowing more text to be shown. Here comes my first complaint. The text is in 80 columns and on my television is difficult to read. I'm sure that a 40-column option could have been included, without the picture if necessary.

The descriptions, as with all Level 9 adventures are well detailed and add greatly to the atmosphere. The picture are nice but not really necessary and after a while become boring.

I will not detail much about the contents of the adventure as its graveyard to go back to run your fun. So instead to detail my second complaint lets assume I've been wandering around for a while and eventually end up on a galaxy plain. Lets examine something, examine grass. The program responds with You don't greed to use 'grass' to look this part of the game. This message appears whenever the program does not recognize something. Does this, in our example, mean the grass will be requirement or in another section of the game, or is it a way of saying you don't greed it at all. What ever happened to the 'the grass is green and uninteresting' type of response.

One of my grudges against most adventures is the inability to see what's in the background, not just the last two or three moves still shown on the screen. This has been overcome by the inclusion of an input text buffer which you can step through using the cursor controls. As well as this you can edit previous commands and re-execute them. Also included is a multiple copy command which will take you back through the input buffer. Thus, you can try a campaign to solve a puzzle, fail, undo your moves and try another approach.

I've deliberately limited the amount of information supplied about the puzzles and the characters you will meet. This is because the adventure is such a pleasure to play and is full of amazing responses that each individual should start with his knowledge about its content. This review is intended to show you how it is to play and thus convince you to buy it, as this is the best yet from Level 9. Oh yes, one more thing, all the words beginning with m begin with gm. This is something you either hate or love - its up to you.



Colin Hunt

-Four Great Games Volume 11-

(Cassette - £3.99 from cassette, £3.59 disk, £4.50)

Here they are, the best of, the super best of and yes the supermagazines of 'Yes, four great games for your Amstrad. But I have to say they are not so great. I mean, okay, at last they seem to bring out these compilations, so maybe its a start.

The first game is *Wipe Down: Wipe It!*, by a Radio 1 type shock off and everything kind of game. You fight your way through various levels and five year follow effects, if you can or dare. The graphics are under average and so is the sound, though the music is a little tune you can hum along to. Thats about it, thanks, nice try.

The second game is called *Space Mazeit*. Here you guide your spaceship over some terrain in space and blast everything that crosses your map... upgrade to the next level and start again. Only, I have a better blast 'em up collection on my VCS with better graphics and better sound. Next please.

Allright, lets see... Oh yes, now we have a game called *Mouse Trap* (similar to the with the old C64 version). Its a platform and ladder game, its fun and the best game from this collection. There are 23 screens to master and a few bugs, but who cares? Marvin the Mouse must search for his favorite food, a weasel of golden cheese, whilst avoiding all the obstacles on his journey. The graphics is not the very best, like it claims to be, but is good clean fun, the graphics are simple (including the bugs) and the music once again is a little sing-a-long.

This one you should give a try

The last game on the double tape is *Killer Cycle*. You'd expect death-on two wheels with blood and gore. Ha, won't you be fit for a giggle. Remember surround, an old VCS game. Thus right, two lines on the screen, longest surviving line wins. Well, here that game again with the only difference being with the number of players, now increased to four. You can, if you want, play against the computer. This game is most definitely second best.

For £3.99 you can not expect the best games ever produced, still anyway for that price its not much of a loss. There is some promise here (especially with *Mouse Trap*) and I hope Typhoon comes in support days in the future. Watch out for the new *Home Olympiad '88* available soon.

Thomas Holzer

**Issue 2 of 8:16 will be available
at the end of February 1988.**

To reserve your copy send 75 pence
to 8:16 with your name and address
and we will post it to you.

-Henry's House-

(Mastertronic - £1.50 - Tape only - 8 disk)

Mastertronic, one of the leading software companies for budget priced games have just produced another classic. The name of the game? Henry's House. Its a platform and ladder game and before you say 'oh no, not another', let me tell you this is the best platform and ladder game since *Maze 2099*.

Little Henry, one of the royal children was playing in his father's laboratory. His father has just invented a new potion and Henry could not resist the challenge and took a small sip. Now he has shrunk and is only 6 inches tall and has got himself locked into the children's cupboard. You have to help him find the key to get him out and then get him back to full size. Thats the story so far. You then guide little Henry through the royal household avoiding all the obstacles like the terrible mudpuddle, stamping boots, flying eggs and much more. You must collect all

the items in each screen in order to get the key for the next. Once you have completed one level the picture changes and you see little Henry coming out of the door, down the hallway and into the next door (level).

Nicely made, the graphics are very good and detailed. The music is short but repeat. The special effects are nothing special but they do there purpose for the gameplay. There are eight levels to complete and if you die you just press the fire button to start within your previous level. Very good for training and as you get the chance to see all levels, some of which are very funny. If you want a good game which is not to difficult to play, but will give you many hours of entertainment this is one for you.

Thomas Holzer

-STBUF-

Lectures on STOKE'S operators

Have you written a useful utility?

Played a game you
think everyone should
play?

Then send an article
to E:16.

-Wanted-

Can anyone help Thomas out, who is looking for the following VHS games to complete his collection? You can contact Thomas via E-mail:

ATARI: ID To The Toe (CX 2048), Donald Duck Spaceship, Fox With Numbers, Frog Capture, Gomoku, Hangman, Mine Run (CX 2048), Krull (CX 2048), Night Driver (CX 2048), Pingo, Shooting Gallery (CX 2048), Starlily, Slot Race (CX 2048), Space Y3, The Red Baron, Spacewar!, Pinball (CX 2048), Track and Field, Xevious, Black Jack, Slot Machine (CX 2048), Pinball (CX 2048), Real Sports - Football (CX 2048), Real Sports - Football (CX 2048) and Real Sports - Basketball (CX 2048).

ACTIVITIES. Chorus, Crayons, and Puzzles.

PAKISTAN, Mulla, Javed, *Bowl and Lord of the Waves*.

SPECTRALVISION Galactic Thesis, One
Page and Manual.

STANDARD: Frogger, Pinball and Space Invaders.

REFERENCES

-1nfo-

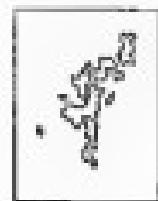
The programme

All programs within B:16 are written using either Turbo Basic or with Atari Assembler Editor cartridges. Turbo Basic can be purchased from several different public domain sources, including Page 8 (2173-217397), who supply a printed manual and additional programs on the disk. Alternatively you can obtain Turbo Basic and all the programs within this issue of B:16 directly for £12.50. It pays off buying straight if you also buy a copy of Monitor from ZYX (Monitor 22-2222-2, £6.99 each, postage).

-User Group File-

Name: Bournemouth and Poole Area User Group (BaPAUG)
Contact: Colin West - 0202-477183.
Members: 17
Message: Is Friday away enough?
Kings Community Centre, Poolesea, Bournemouth.
Newsletter: Bi-monthly
Interest: Handbags and 'fiddlyware' de rebagness.
Age: 8 months as BaPAUG.
Other: 90+ years with Bournemouth Area Computer Club.

-User Group File-

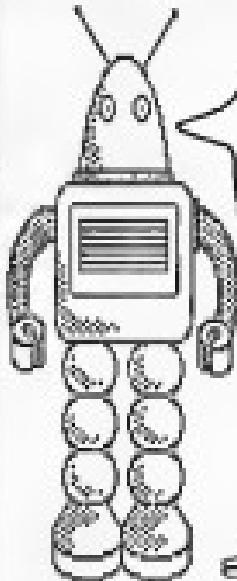


If you would like your User Group to be included within our User Group File, please send the following information to 8:16 (Address on page 10) :

The group's name.
The contact name, address and telephone number.
The number of group members (Non members of a social club).
Meeting day, place (if any) and date of meetings (e.g. 1st Friday each month).
Name of any newsletter and release date.
Special interests within the group.
The age of the group.
and finally a copy of the page with a mark showing us where you are.

Future issues of 8:16 will have the information supplied by each group on the page opposite this map. This map will be used to indicate where the groups are situated. As you see, our group is already indicated, so come on and find out where all these user groups are.





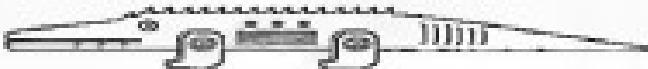
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In

8:16

The Bournemouth and Poole
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